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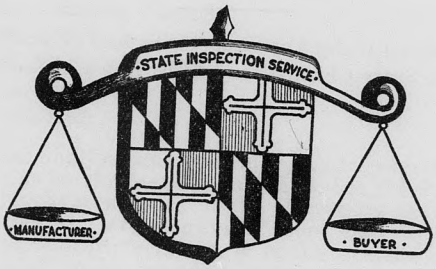
COMMERCIAL FERTILIZERS

This Bulletin contains a report of Fertilizer Inspection Activities in Maryland from July 1, 1927, to January 1, 1928.



FERTILIZER INSPECTION SERVICE
Controlled by
UNIVERSITY OF MARYLAND
COLLEGE PARK, MD.

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COMMERCIAL FERTILIZERS

JULY 1, 1927—JANUARY 1, 1928

Compiled and edited under the supervision and direction of Neil E. Gordon, State Chemist, and L. E. Bopst, Assistant.

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The inspection, analysis and control work of the fertilizer, feed and lime trade is carried on by the State Department, but the State Department is so related to the chemical work of the University that the other men of the chemical staff who are mentioned below may be called on for help in time of need; and, furthermore, it is the purpose of the majority of this chemical staff to be carrying on some investigations which bear directly or indirectly on the properties of fertilizer, feed and lime.

CHEMICAL STAFF

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INTRODUCTION

State sampling agents obtained 1288 samples of commercial fertilizers from shipments found being offered for sale throughout the State during the year 1927. This represents an increase of 133 over the total number secured in 1926.

Five hundred and twenty-eight of these samples are covered by the reports in this bulletin, and represent sales made during the fall season. All of these samples were analyzed for the purpose of establishing the correctness of the guarantees on the sacks or attached cards. Results of these examinations have been reported to the respective manufacturers, dealers and whenever possible to the buyers.

The samples reported in this bulletin may be included in 5 general classes, which together with the number in each, are as follows:- Three hundred and twenty-six complete fertilizers supplying ammonia and/or nitrogen, available phosphoric acid and water soluble potash; 91 acid phosphate and potash fertilizers supplying available phosphoric acid and water soluble potash; 67 superphosphate (acid phosphate) fertilizers; 18 ground bone fertilizers carrying guarantees for ammonia and total phosphoric acid; and 26 miscellaneous fertilizers, including sulphate of ammonia, tankage, kainit, muriate of potash, etc.

The results of all examinations indicate that 104 or 19.7 per cent. were deficient in one or more forms of plant food. Compared with this only 32 or 6.6 per cent. were deficient in value guaranteed.

COMMERCIAL VALUES

The valuations adopted for the past fall seasons and which are given below are chiefly of use in making comparisons of the relative values of the various fertilizers analyzed from July 1, 1927, to January 1, 1928.

It has been found impossible to fix a single scale of valuations adapted to the numerous points of consumption throughout the State, as there is in some cases quite a difference existing in the transportation charges from points of manufacture to user. It is our desire to show the average cost of fertilizer materials to manufacturers f. o. b. Baltimore, without taking into consideration expenses incidental to manufacture and distribution together with a fair manufacturer's profit.

The valuations employed in this bulletin for calculating the approximate relative values of fertilizers are as follows:

TABLE FOR CALCULATING FERTILIZER VALUES

	Per Unit
(1) Nitrogen calculated as ammonia	$4.00
(2) Available phosphoric acid:	
(a) In mixed fertilizers or in dissolved rock	.80
(b) In tankage or ground bone	.60
(3) Insoluble phosphoric acid	.15
(4) Potash	.80

VALUES

To compute values of fertilizers on this scale multiply the percentage of each plant food in the fertilizer by the respective value per unit given in the table and add the results together.

Take for example a complete fertilizer with an analysis of 2-8-5. We would have two per cent. of ammonia, eight per cent. of phosphoric acid and five per cent. of potash. Since by the preceding table ammonia is worth $4.00 per unit; available phosphoric acid 80 cents; and potash, 80 cents, we have $18.40.

2x$4.00	$8.00 value of ammonia
8x .80	6.40 value of phosphoric acid
5x .80	4.00 value of potash
	$18.40 value of fertilizer per ton.

TABLES

The following pages contain the guarantees and analyses of 528 brands of commercial fertilizers examined from July 1, 1927 to January 1, 1928:

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
American Agricultural Chemical Co., New York, N. Y.													
Acid Phosphate 16%	Baltimore	----	----	----	----	**2.15**	----	**16.45**	16.00	----	----	**$13.48**	$12.80
Acid Phosphate 16%	Baltimore	----	----	----	----	**1.90**	----	**16.40**	16.00	----	----	**13.41**	12.80
Acid Phosphate 16%	Baltimore	----	----	----	----	**2.00**	----	**16.10**	16.00	----	----	**13.18**	12.80
Acid Phosphate 16%	Upper Marlboro.	----	----	----	----	**.95**	----	**16.45**	16.00	----	----	**13.30**	12.80
Acme Fertilizer 1-9-4	Baltimore	**.82**	.43	**1.09**	1.00	**1.10**	----	**10.00**	9.00	**4.00**	4.00	**15.73**	14.40
Acme Fertilizer 1-9-4	Baltimore	**.73**	.43	**.99**	1.00	**1.35**	----	**10.35**	9.00	**4.00**	4.00	**15.64**	14.40
Acme Fertilizer 1-9-4	Baltimore	**.68**	.43	**.99**	1.00	**1.40**	----	**9.00**	9.00	**4.28**	4.00	**14.79**	14.40
Acme Fertilizer 1-9-4	Baltimore	**.87**	.43	**1.13**	1.00	**1.00**	----	**10.00**	9.00	**4.16**	4.00	**16.00**	14.40
Acme Fertilizer 1-9-4	Baltimore	**.80**	.43	**1.04**	1.00	**1.10**	----	**9.30**	9.00	**4.32**	4.00	**15.23**	14.40
Acme Fertilizer 1-9-4	Baltimore	**.72**	.43	**1.01**	1.00	**1.10**	----	**9.60**	9.00	**4.16**	4.00	**15.22**	14.40
Agrico Fertilizer for Grain 2-12-4	Baltimore	**1.85**	1.03	**2.05**	2.00	**1.20**	----	**12.60**	12.00	**4.08**	4.00	**21.72**	20.80
Agrico Fertilizer for Grain 2-12-4	Baltimore	**1.81**	1.03	**2.05**	2.00	**.85**	----	**12.75**	12.00	**4.36**	4.00	**22.02**	20.80
Agrico Fertilizer for Grain 2-12-4	Baltimore	**1.79**	1.03	**2.18**	2.00	**.95**	----	**12.35**	12.00	**4.36**	4.00	**22.23**	20.80
Agrico Fertilizer for Truck 5-10-5	Baltimore	**4.06**	2.92	**4.78**	5.00	**.90**	----	**10.00**	10.00	**4.68**	5.00	**31.00**	32.00
Double Strength Fertilizer 2-16-8	Baltimore	**2.05**	1.03	**2.19**	2.00	**.95**	----	**17.15**	16.00	**8.32**	8.00	**29.28**	27.20
Early Truck Fertilizer 5-8-5	Annapolis	**4.28**	2.92	**4.86**	5.00	**1.05**	----	**8.65**	8.00	**5.00**	5.00	**30.52**	30.40
Farmer's Friend Fertilizer 2-12-4	Baltimore	**1.62**	1.03	**2.00**	2.00	**.95**	----	**12.75**	12.00	**4.32**	4.00	**21.80**	20.80
Farmer's Friend Fertilizer 2-12-4	Baltimore	**1.88**	1.03	**2.15**	2.00	**.85**	----	**12.85**	12.00	**4.28**	4.00	**22.43**	20.80
Farmer's Friend Fertilizer 2-12-4	Upper Marlboro.	**1.64**	1.03	**1.98**	2.00	**1.65**	----	**12.15**	12.00	**4.28**	4.00	**21.31**	20.80
Fine Ground Bone	Upper Marlboro.	----	----	**3.29**	3.00	----	----	***24.90**	*22.88	----	----	**28.10**	25.73
Gladiator Fertilizer 4-8-7	Upper Marlboro.	**3.25**	----	**3.68**	4.00	**1.45**	----	**8.20**	8.00	**7.12**	7.00	**27.20**	28.00
Kainit	Upper Marlboro.	----	----	----	----	----	----	----	----	**12.40**	12.40	----	----
Kangaroo Komplete Kompound 2-9-3	Baltimore	**1.67**	1.03	**2.15**	2.00	**1.60**	----	**9.20**	9.00	**3.16**	3.00	**18.73**	17.60
Kangaroo Komplete Kompound 2-9-3	Baltimore	**1.59**	1.03	**2.00**	2.00	**.95**	----	**9.65**	9.00	**3.24**	3.00	**18.45**	17.60

Monarch Fertilizer 4-8-4	Upper Marlboro	**3.18**	2.13	**3.98**	4.00	**1.45**	----	**8.20**	8.00	**7.12**	7.00	**27.20**	28.00

Monarch Fertilizer 4-8-4	Upper Marlboro	**3.18**	2.13	**3.98**	4.00	**1.15**	----	**8.15**	8.00	**4.00**	4.00	**25.81**	25.60
Muriate of Potash	Baltimore	----	----	----	----	----	----	----	----	**49.90**	48.00	----	----
Old Hickory Fertilizer 2-8-10	Baltimore	**1.67**	1.03	**2.18**	2.00	**1.75**	----	**8.00**	8.00	**9.20**	10.00	**22.74**	22.40
Pure Raw Bone	Baltimore	----	----	**4.50**	4.50	----	----	***21.40**	*20.60	----	----	**30.84**	30.36
Pure Raw Bone	Baltimore	----	----	**4.68**	4.50	----	----	***22.50**	*20.60	----	----	**32.22**	30.36
Red Dog Fertilizer 2-8-5	Baltimore	**1.57**	1.03	**1.98**	2.00	**.95**	----	**8.85**	8.00	**5.00**	5.00	**19.14**	18.40
Red Dog Fertilizer 2-8-5	Baltimore	**1.72**	1.03	**2.06**	2.00	**1.00**	----	**8.90**	8.00	**5.04**	5.00	**19.54**	18.40
Red Dog Fertilizer 2-8-5	Baltimore	**1.66**	1.03	**2.00**	2.00	**.95**	----	**8.95**	8.00	**5.00**	5.00	**19.30**	18.40
Red Dog Fertilizer 2-8-5	Baltimore	**1.64**	1.03	**1.98**	2.00	**1.40**	----	**8.70**	8.00	**5.04**	5.00	**19.12**	18.40
Red Dragon Fertilizer 2-12-2	Baltimore	**1.57**	1.03	**2.00**	2.00	**1.30**	----	**8.30**	8.00	**5.00**	5.00	**18.84**	18.40
Victory Mixture 0-12-5	Baltimore	**1.67**	1.03	**2.05**	2.00	**2.45**	----	**11.95**	12.00	**2.32**	2.00	**19.99**	19.20
Victory Mixture 0-12-5	Baltimore	----	----	----	----	**1.50**	----	**12.00**	12.00	**4.84**	5.00	**13.70**	13.60
Listers Acid Phosphate H. G. 0-16-0	Baltimore	----	----	----	----	**1.60**	----	**12.30**	12.00	**5.04**	5.00	**14.11**	13.60
Listers G. Brand Fertilizer 1-9-4	Boring	----	----	----	----	**2.10**	----	**16.30**	16.00	----	----	**13.36**	12.80
Listers Harvest Queen 2-8-5	Baltimore	**.85**	.43	**1.11**	1.00	**1.80**	----	**9.05**	9.00	**4.20**	4.00	**15.31**	14.40
Listers Harvest Queen 2-8-5	Boring	**1.60**	1.03	**1.98**	2.00	**1.05**	----	**8.55**	8.00	**5.12**	5.00	**19.02**	18.40
Patapsco Acid Phosphate 0-16-0	Baltimore	**1.67**	1.03	**1.98**	2.00	**1.15**	----	**8.15**	8.00	**5.04**	5.00	**18.64**	18.40
Patapsco Apex Mixture 0-12-5	Baltimore	----	----	----	----	**1.35**	----	**16.05**	16.00	----	----	**13.04**	12.80
Patapsco Apex Mixture 0-12-5	Baltimore	----	----	----	----	**1.35**	----	**12.25**	12.00	**5.16**	5.00	**14.13**	13.60
Patapsco Coon Brand Fertilizer 1-9-4	Baltimore	----	----	----	----	**1.10**	----	**12.00**	12.00	**5.28**	5.00	**13.99**	13.60
Patapsco Coon Brand Fertilizer 1-9-4	Baltimore	**.75**	.43	**1.09**	1.00	**1.10**	----	**9.60**	9.00	**4.04**	4.00	**15.44**	14.40
		.70	.43	**1.14**	1.00	**1.75**	----	**9.05**	9.00	**4.04**	4.00	**15.29**	14.40
Armour Fert. Works, Baltimore, Md.													
Big Crop Acid Phosphate 0-16-0	Baltimore	----	----	----	----	**.75**	----	**17.05**	16.00	----	----	**13.75**	12.80
Big Crop Acid Phosphate 0-16-0	Myersville	----	----	----	----	**.60**	----	**17.20**	16.00	----	----	**13.85**	12.80
Big Crop 4-8-4	Baltimore	----	----	----	----	**.65**	----	**16.65**	16.00	----	----	**13.42**	12.80
Big Crop 4-16-4	Monrovia	**3.58**	2.00	**3.99**	4.00	**.40**	----	**9.00**	8.00	**4.36**	4.00	**26.71**	25.60
Big Crop 4-16-4	Baltimore	**3.96**	2.00	**4.13**	4.00	**.75**	----	**15.55**	16.00	**4.00**	4.00	**32.27**	32.00
Big Crop 1-9-4	Baltimore	**3.63**	2.00	**3.89**	4.00	**.75**	----	**16.75**	16.00	**4.36**	4.00	**32.56**	32.00
Big Crop 1-9-4	Myersville	**.75**	.50	**1.09**	1.00	**.95**	----	**9.25**	9.00	**4.04**	4.00	**15.13**	14.40
Big Crop 2-16-8	Baltimore	**.81**	.50	**1.08**	1.00	**.80**	----	**9.10**	9.00	**4.04**	4.00	**14.95**	14.40
Big Crop 2-16-8	Baltimore	**1.93**	1.00	**2.17**	2.00	**.60**	----	**16.60**	16.00	**8.00**	8.00	**28.45**	27.20
Big Crop 2-16-8	Baltimore	**1.80**	1.00	**2.00**	2.00	**.75**	----	**16.45**	16.00	**8.32**	8.00	**27.93**	27.20
Big Crop 2-16-8	Baltimore	**1.91**	1.00	**2.08**	2.00	**.43**	----	**16.17**	16.00	**8.24**	8.00	**27.91**	27.20
		1.98	1.00	**2.15**	2.00	**.75**	----	**16.75**	16.00	**9.28**	8.00	**29.53**	27.20

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Armour Fertilizer Works, Baltimore, Md.—Continued.													
Big Crop 2-12-4	Baltimore	**1.88**	1.00	**2.05**	2.00	**.65**	----	**12.55**	12.00	**4.36**	4.00	$**21.83**	$20.80
Big Crop 0-16-7	Maugansville	----	----	----	----	**.80**	----	**16.60**	16.00	**7.56**	7.00	**19.45**	18.40
Big Crop 0-12-5	Baltimore	----	----	----	----	**.80**	----	**12.10**	12.00	**5.64**	5.00	**14.31**	13.60
Big Crop Raw Bone Meal 4½-21½ T. P. A.	Baltimore	----	----	**5.25**	4.50	----	----	***20.20**	*21.50	----	----	**33.12**	30.90
Lime Phosphate 0-13-0	Baltimore	----	----	----	----	**2.00**	----	**13.00**	13.00	----	----	**10.70**	10.40
Lime Phosphate 0-13-0	Baltimore	----	----	----	----	**1.90**	----	**13.10**	13.00	----	----	**10.77**	10.40
Lime Phosphate 0-13-0	Baltimore	----	----	----	----	**.90**	----	**14.10**	13.00	----	----	**11.42**	10.40
Muriate of Potash	Baltimore	----	----	----	----	----	----	----	----	**48.20**	48.00	----	----
Associated Chemical Co., Baltimore, Maryland.													
Dried Fish Scrap	Preston	----	----	**9.49**	10.00	----	----	***6.70**	*5.50	----	----	**41.98**	43.30
Dried Fish Scrap	Baltimore	----	----	**9.14**	10.00	----	----	***7.00**	*5.50	----	----	**40.76**	43.30
Baltimore Fert. Co., Baltimore, Md.													
Honest Ammoniated Bone	Fallston	**1.59**	.60	**2.15**	2.00	**1.25**	----	**8.85**	8.00	**2.04**	2.00	**17.50**	16.00
Honest 1-9-4	Baltimore	**.50**	.60	**1.01**	1.00	**1.35**	----	**9.35**	9.00	**4.04**	4.00	**14.95**	14.40
Honest 1-9-4	Glyndon	**.39**	.60	**1.02**	1.00	**.80**	----	**8.40**	9.00	**4.90**	4.00	**14.84**	14.40
Honest 4-8-4	Fallston	**3.59**	.60	**4.10**	4.00	**.90**	----	**7.90**	8.00	**4.04**	4.00	**26.09**	25.60
Honest 2-8-5	Baltimore	**1.57**	.60	**2.01**	2.00	**.75**	----	**8.45**	8.00	**5.12**	5.00	**19.01**	18.40
Honest 2-8-5	Glyndon	**1.55**	.60	**2.18**	2.00	**1.13**	----	**7.77**	8.00	**5.28**	5.00	**19.33**	18.40
Honest 2-8-5	Fallston	**1.30**	.60	**1.98**	2.00	**.75**	----	**8.05**	8.00	**5.28**	5.00	**18.69**	18.40
Honest 2-8-10	Fallston	**1.72**	.60	**2.18**	2.00	**.60**	----	**8.10**	8.00	**9.24**	10.00	**22.68**	22.40

Honest 3-8-5 [Bel Air

Honest 3-8-5	Bel Air	**2.29**	.60	**3.16**	3.00	**1.45**	----	**8.35**	8.00	**5.36**	5.00	**23.83**	22.40
Honest 3-8-5	Fallston	**2.68**	.60	**3.19**	3.00	**.90**	----	**8.00**	8.00	**4.42**	5.00	**22.84**	22.40
Old Honesty	Glyndon	**.50**	.49	**1.11**	1.00	**1.50**	----	**10.10**	11.00	**2.28**	2.00	**14.57**	14.40
Baltimore Pulverizing Co. Balto., Md.													
Acme Harvest King	Baltimore	**.75**	.50	**1.19**	1.00	**1.65**	----	**8.60**	10.00	**4.68**	4.00	**15.63**	15.20
Acme Harvest King	Baltimore	**.75**	.50	**1.31**	1.00	**1.45**	----	**9.55**	10.00	**4.36**	4.00	**16.59**	15.20
Corn and Grain Grower	Baltimore	----	----	----	----	**.80**	----	**10.35**	12.00	**9.68**	5.00	**16.14**	13.60
Harvest King	Baltimore	----	----	----	----	**1.33**	----	**9.97**	12.00	**5.86**	5.00	**12.87**	13.60
Spring and Fall Mixture	Baltimore	**.55**	----	**1.06**	1.00	**1.15**	----	**10.05**	10.00	**4.28**	4.00	**15.87**	15.20
Spring and Fall Mixture	Baltimore	----	----	----	----	**1.85**	----	**7.15**	8.00	**5.92**	5.00	**10.74**	10.40
Spring and Fall Mixture	Baltimore	----	----	----	----	**1.58**	----	**6.82**	8.00	**6.90**	5.00	**11.22**	10.40
		----	----	----	----	**1.10**	----	**8.40**	8.00	**6.62**	5.00	**12.19**	10.40
Baugh & Sons Co., Baltimore, Md.													
Acid Phosphate	Baltimore	----	----	----	----	**2.15**	----	**16.55**	16.00	----	----	**13.56**	12.80
Acid Phosphate	Baltimore	----	----	----	----	**2.20**	----	**16.70**	16.00	----	----	**13.69**	12.80
Acid Phosphate	Maple Grove	----	----	----	----	**1.55**	----	**16.85**	16.00	----	----	**13.71**	12.80
Acid Phosphate	Baltimore	----	----	----	----	**2.05**	----	**16.45**	16.00	----	----	**13.47**	12.80
Bone Meal	Gaithersburg	----	----	----	----	**1.80**	----	**16.00**	16.00	----	----	**13.07**	12.80
Complete Animal Base Fertilizer	Baltimore	----	----	**3.14**	3.00	----	----	***25.50**	*23.00	----	----	**27.86**	25.80
Complete Animal Base Fertilizer	Baltimore	**1.46**	.90	**2.18**	2.00	**1.45**	----	**8.15**	8.00	**5.00**	5.00	**19.46**	18.40
Complete Animal Base Fertilizer	Baltimore	**1.55**	.90	**2.06**	2.00	**1.10**	----	**8.30**	8.00	**5.24**	5.00	**19.24**	18.40
Complete Animal Base Fertilizer	Baltimore	**1.40**	.90	**1.98**	2.00	**1.40**	----	**8.00**	8.00	**5.12**	5.00	**18.63**	18.40
Complete Animal Base Fertilizer	Forest Hill	**1.40**	.90	**1.96**	2.00	**1.40**	----	**7.95**	8.00	**5.00**	5.00	**18.41**	18.40
Double Eagle Phosphate	Baltimore	**1.23**	.90	**2.08**	2.00	**1.25**	----	**8.00**	8.00	**5.24**	5.00	**19.10**	18.40
Double Power Fertilizer	Woodbine	**1.62**	.90	**2.17**	2.00	**1.25**	----	**12.95**	12.00	**4.32**	4.00	**22.69**	20.80
Excelsior Guano	Baltimore	**3.19**	2.41	**4.04**	4.00	**2.25**	----	**15.55**	16.00	**4.32**	4.00	**32.44**	32.00
Excelsior Guano	Baltimore	**.54**	.60	**1.09**	1.00	**1.40**	----	**9.30**	9.00	**4.24**	4.00	**15.40**	14.40
Excelsior Guano	Baltimore	**.60**	.60	**1.11**	1.00	**1.40**	----	**9.30**	9.00	**4.20**	4.00	**15.45**	14.40
Excelsior Guano	Woodbine	**.58**	.60	**1.06**	1.00	**1.30**	----	**9.00**	9.00	**4.20**	4.00	**15.00**	14.40
Excelsior Guano	Baltimore	**.51**	.60	**1.09**	1.00	**1.25**	----	**9.35**	9.00	**4.24**	4.00	**15.42**	14.40
Lime and Phosphate	Baltimore	**.58**	.60	**1.16**	1.00	**1.00**	----	**9.10**	9.00	**4.04**	4.00	**15.30**	14.40
Lime and Phosphate	Baltimore	----	----	----	----	**2.70**	----	**13.10**	13.00	----	----	**10.89**	10.40
The Old Stand-By	Baltimore	----	----	----	----	**2.18**	----	**13.17**	13.00	----	----	**10.87**	10.40
The Old Stand-By	Ellicott City	**1.40**	.90	**2.05**	2.00	**1.50**	----	**12.70**	12.00	**2.12**	2.00	**20.29**	19.20
		1.41	.90	**2.01**	2.00	**2.55**	----	**12.15**	12.00	**2.20**	2.00	**19.90**	19.20

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Baugh & Sons Co., Baltimore, Maryland.—Continued.													
Pure Bone and Muriate of Potash Mixture	Baltimore	----	----	**2.54**	2.50	----	----	***22.30**	*22.00	**5.16**	5.00	$**27.67**	$27.20
Raw Bone Meal	Baltimore	----	----	**6.04**	4.50	----	----	***19.00**	*21.50	----	----	**35.56**	30.90
Raw Bone Meal	Baltimore	----	----	**6.46**	4.50	----	----	***19.85**	*21.50	----	----	**37.75**	30.90
Raw Bone Meal	Forest Hill	----	----	**6.45**	4.50	----	----	***19.00**	*21.50	----	----	**37.20**	30.90
Phosphate and Potash Mixture	Baltimore	----	----	----	----	**1.30**	----	**12.30**	12.00	**5.20**	5.00	**14.20**	13.60
Phosphate and Potash Mixture	Woodbine	----	----	----	----	**1.20**	----	**12.10**	12.00	**5.12**	5.00	**13.96**	13.60
Phosphate and Potash Mixture	Baltimore	----	----	----	----	**1.30**	----	**12.20**	12.00	**5.00**	5.00	**13.96**	13.60
Phosphate and Potash Mixture	Baltimore	----	----	----	----	**1.10**	----	**11.40**	10.00	**4.80**	4.00	**13.13**	11.20
Wheat Fert. for Wheat and Grass	Baltimore	**1.40**	.90	**2.00**	2.00	**1.35**	----	**9.35**	9.00	**3.00**	3.00	**18.08**	17.60
Wheat Fert. for Wheat and Grass	Baltimore	**1.42**	.90	**2.00**	2.00	**1.20**	----	**8.80**	9.00	**3.20**	3.00	**17.78**	17.60
Beckley Fertilizer Co., Halfway, Md.													
Bone Mixture	Halfway	**1.13**	----	**1.57**	1.50	**1.15**	----	**14.95**	14.00	----	----	**18.41**	17.20
Crop Grower	Halfway	**.61**	----	**1.06**	1.00	**.60**	----	**9.50**	9.00	**4.04**	4.00	**15.16**	14.40
Wheat and Grass Grower	Halfway	**1.26**	----	**1.69**	1.50	**1.00**	----	**12.60**	12.00	**5.36**	5.00	**21.28**	19.60
Herbert Bryant's Son, Alexandria, Virginia													
Acid Phosphate H. G.	Gaithersburg	----	----	----	----	**1.35**	----	**16.35**	16.00	----	----	**13.28**	12.80
Belle Haven Ammoniated	Gaithersburg	**1.49**	1.21	**2.12**	2.00	**1.80**	----	**8.70**	8.00	**4.68**	5.00	**19.45**	18.40
Genuine Fish and Potash	Dickerson	**1.28**	1.21	**2.05**	2.00	**1.15**	----	**9.25**	9.00	**2.32**	2.00	**17.63**	16.80
Genuine Fish and Potash	Gaithersburg	**1.36**	1.21	**2.08**	2.00	**1.10**	----	**9.50**	9.00	**2.36**	2.00	**17.98**	16.80
High Grade Fish and Potash	Gaithersburg	**1.36**	1.21	**2.13**	2.00	**.75**	----	**8.55**	8.00	**3.36**	3.00	**18.16**	16.80
Pure Animal Bone Meal	Gaithersburg	----	----	**4.59**	4.50								
Soluble Phosphate and Potash													

Pure Animal Bone Meal	Gaithersburg	----	----	**4.59**	4.50	----	----	***23.10**	*20.60	----	----	**32.22**	30.36
Soluble Phosphate and Potash	Gaithersburg	----	----	----	----	**.75**	----	**13.45**	12.00	**5.32**	5.00	**15.13**	13.60
J. Bolgiano Seed Co., Baltimore, Md.													
Square Deal Blood Meal	Baltimore	----	----	**13.54**	16.00	----	----	***1.90**	*2.00	----	----	**55.30**	65.20
Square Deal Bone Meal	Baltimore	----	----	**2.63**	3.00	----	----	***23.80**	*22.88	----	----	**24.80**	25.73
Square Deal Lawn Dressing	Baltimore	----	----	**2.89**	2.25	----	----	***2.00**	*1.50	**2.00**	2.00	**14.36**	11.50
Bon Arbor Chemical Co., Paterson, N. J.													
Bon Arbor	Baltimore	**19.01**	----	**19.18**	19.00	----	----	**6.00**	4.00	**6.92**	4.00	**87.06**	82.40
Central Chemical Co., Hagerstown, Maryland.													
M. B. W. Acid Phosphate	Centreville	----	----	----	----	**1.45**	----	**16.85**	16.00	----	----	**13.70**	12.80
M. B. W. Caroline Special	Centreville	**.46**	**.31**	**1.01**	1.00	**.75**	----	**10.15**	10.00	**4.36**	4.00	**15.76**	15.20
M. B. W. Caroline Special	Baltimore	**.68**	**.31**	**1.19**	1.00	**.95**	----	**10.15**	10.00	**4.32**	4.00	**16.48**	15.20
M. B. W. 1-9-4	Centreville	**.54**	**.31**	**1.01**	1.00	**.95**	----	**9.05**	9.00	**4.28**	4.00	**14.84**	14.40
M. B. W. Wheat and Grass	Centreville	----	----	----	----	**.40**	----	**10.40**	10.00	**6.38**	5.00	**13.48**	12.00
M. B. W. Wheat and Grass	Baltimore	----	----	----	----	**1.50**	----	**10.10**	10.00	**5.32**	5.00	**12.57**	12.00
Gro-All Crown Jewel	Baltimore	----	----	----	----	**.95**	----	**10.25**	10.00	**5.80**	5.00	**12.98**	12.00
Gro-All Crown Jewel	Washington Grove	**.62**	**.31**	**1.18**	1.00	**1.10**	----	**9.30**	9.00	**4.00**	4.00	**15.53**	14.40
Gro-All Crown Jewel	Motters	**.48**	**.31**	**.96**	1.00	**1.20**	----	**9.00**	9.00	**4.04**	4.00	**14.45**	14.40
Gro-All Crown Jewel	Baltimore	**.58**	**.31**	**1.04**	1.00	**1.10**	----	**8.90**	9.00	**4.00**	4.00	**14.65**	14.40
Gro-All Dissolved Phosphate	Washington Grove	**.63**	**.31**	**1.14**	1.00	**.95**	----	**9.45**	9.00	**4.16**	4.00	**15.59**	14.40
Gro-All Dissolved Phosphate	Baltimore	----	----	----	----	**.90**	----	**16.00**	16.00	----	----	**12.94**	12.80
Gro-All Excelsior	Motters	----	----	----	----	**1.20**	----	**16.80**	16.00	----	----	**13.62**	12.80
Gro-All Excelsior	Mt. Airy	**1.55**	**.60**	**1.98**	2.00	**1.15**	----	**8.00**	8.00	**5.08**	5.00	**18.55**	18.40
Gro-All Excelsior	Baltimore	**1.57**	**.60**	**2.00**	2.00	**.90**	----	**8.70**	8.00	**5.16**	5.00	**19.23**	18.40
Gro-All Grain and Grass Grower	Frederick	**1.52**	**.60**	**2.00**	2.00	**.95**	----	**8.25**	8.00	**5.00**	5.00	**18.74**	18.40
Gro-All Potash Special	Frederick	**1.69**	----	**2.12**	2.00	**1.30**	----	**11.60**	12.00	**2.16**	2.00	**19.69**	19.20
Gro-All Potash Special	Baltimore	----	----	----	----	**.95**	----	**12.45**	12.00	**5.04**	5.00	**14.13**	13.60
Gro-All Potash Special	Baltimore	----	----	----	----	**1.05**	----	**12.55**	12.00	**5.36**	5.00	**14.49**	13.60
Gro-All Super Fish	Smithsburg	----	----	----	----	**.85**	----	**11.95**	12.00	**5.24**	5.00	**13.88**	13.60
		1.06	**.60**	**1.88**	2.00	**1.30**	----	**12.60**	12.00	**6.20**	6.00	**22.76**	22.40

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Edward T. Clark, Ellicott City, Md.													
Clark's Mixture "C"	Ellicott City	.62	----	2.34	2.25	3.80	----	9.80	10.00	4.48	4.00	$21.35	$20.20
Mixture "D"	Ellicott City	.85	.50	2.06	2.00	.50	----	9.80	9.00	2.36	2.00	18.05	16.80
Devilbiss Bros., New Windsor, Md.													
Acid Phosphate	New Windsor	----	----	----	----	.70	----	17.20	16.00	----	----	13.87	12.80
Butcher House	New Windsor	.88	.30	1.31	1.00	.75	----	10.65	10.00	5.12	5.00	17.97	16.00
Wheat Grower	New Windsor	.67	.30	1.13	1.00	.75	----	9.35	9.00	3.69	3.00	15.06	13.60
Diamond Fertilizer Co., Baltimore, Maryland.													
Acid Phosphate	Laurel	----	----	----	----	1.70	----	16.00	16.00	----	----	13.06	12.80
All Crop Grower	Laurel	1.55	.60	2.01	2.00	1.30	----	8.20	8.00	4.76	5.00	18.61	18.40
Dorchester Fertilizer Co., Cambridge, Md.													
Farmer's Favorite	Cambridge	1.93	1.50	2.19	2.00	1.00	----	10.30	8.00	8.32	10.00	23.81	22.40
Old Dorset	Cambridge	.54	.60	1.02	1.00	1.65	----	9.45	9.00	5.16	4.00	16.02	14.40
Old Dorset	Cambridge	.61	.60	.99	1.00	1.00	----	10.20	9.00	4.88	4.00	16.17	14.40
Old Glory	Cambridge	----	----	----	----	1.80	----	12.00	12.00	5.62	5.00	14.37	13.60
Our Special	Cambridge	1.75	1.15	2.18	2.00	.35	----	9.45	8.00	5.68	5.00	20.87	18.40
Our Special	Cambridge	1.67	1.15	1.98	2.00	1.05	----	8.85	8.00	5.96	5.00	19.93	18.40
Our Special	Federalsburg	1.46	1.15	1.84	2.00	.95	----	8.45	8.00	4.46	5.00	17.83	18.40
Dorchester Twelve-Six	Cambridge	----	----	----	----	.40	----	12.60	12.00	6.36	6.00	15.23	14.40
Dorchester Twelve-Six	Cambridge	----	----	----	----	.25	----	12.55	12.00	6.00	6.00	14.88	14.40
Wheat Special	Cambridge	.71	.60	1.09	1.00	.85	----	12.65	11.00	5.60	5.00	19.09	16.80
Earp-Thomas Cultures Corp.,													

Earp-Thomas Cultures Corp., Long Island City, N. Y.														
Stim-U-planT	Baltimore	----	----	**13.04**	13.37	**.40**	----	**14.60**	12.00	**16.16**	15.00	**76.83**	75.08
Edelen Bros., Baltimore, Md.														
Red Tobacco Guano	Baltimore	**2.23**	.60	**2.69**	3.00	**1.30**	----	**9.10**	8.00	**5.52**	6.00	**22.66**	23.20
Wheat and Grain Mixture	Baltimore	**.60**	.60	**1.01**	1.00	**1.25**	----	**9.25**	9.00	**4.00**	4.00	**14.83**	14.40
Wheat and Grain Mixture	Baltimore	**.53**	.60	**.99**	1.00	**.90**	----	**9.40**	9.00	**4.00**	4.00	**14.82**	14.40
Excell-Laboratories, Chicago, Ill.														
Zenkes "New Plant Life" (Liquid)	Baltimore	----	----	**1.71**	1.71	----	----	***.40**	*1.10	**.56**	.54	**7.53**	7.93
Farmers Fertilizer & Feed Co., Westminster, Md.														
Acid and Potash	Westminster	----	----	----	----	**.75**	----	**12.95**	12.00	**5.62**	5.00	**14.97**	13.60
Farmers Favorite	Westminster	**.50**	.60	**1.06**	1.00	**.65**	----	**10.95**	10.00	5.00	5.00	**17.10**	16.00
Potato Grower Fertilizer	Westminster	**1.71**	1.20	**2.12**	2.00	**.85**	----	**8.95**	8.00	**5.00**	5.00	**19.77**	18.40
XX 1-9-3	Westminster	**.60**	.60	**1.11**	1.00	**1.30**	----	**9.70**	9.00	**3.36**	3.00	**15.09**	13.60
XXX 1-9-4	Westminster	**.77**	.60	**1.18**	1.00	**.65**	----	**9.95**	9.00	**4.36**	4.00	**16.27**	14.40
Farmers and Planters Co., Salisbury, Md.														
Acid Phosphate	Salisbury	----	----	----	----	**.75**	----	**17.05**	16.00	----	----	**13.75**	12.80
Fish Mixture	Salisbury	**1.67**	1.21	**2.18**	2.00	**.83**	----	**8.47**	10.00	**2.24**	2.00	**17.42**	17.60
Fish Mixture	Salisbury	**1.56**	1.21	**2.05**	2.00	**.65**	----	**8.50**	10.00	**2.60**	2.00	**17.18**	17.60
General Crop Grower	Salisbury	**.53**	.73	**1.04**	1.00	**1.45**	----	**7.95**	10.00	**3.08**	2.00	**13.20**	13.60
General Crop Grower	Salisbury	**.58**	.73	**1.02**	1.00	**1.30**	----	**8.40**	10.00	**3.36**	2.00	**13.69**	13.60
Rock and Kainit	Salisbury	----	----	----	----	**1.55**	----	**9.35**	7.00	**5.04**	5.00	**11.74**	9.60
Rock and Kainit	Salisbury	----	----	----	----	**.25**	----	**6.75**	7.00	**6.16**	5.00	**10.37**	9.60
Special Fish Mixture	Salisbury	**1.57**	1.21	**2.00**	2.00	**.70**	----	**7.80**	8.00	**6.42**	5.00	**19.49**	18.40
Special Fish Mixture	Salisbury	**1.52**	1.21	**2.00**	2.00	**.73**	----	**6.37**	8.00	**6.08**	5.00	**18.07**	18.40
Frederick County Farm Bureau Co-op. Asso., Frederick, Md.														
1¼-9-3	Urbana	**.94**	.61	**1.76**	1.25	**1.20**	----	**9.40**	9.00	**3.36**	3.00	**17.43**	14.60
1¼-9-3	Brunswick	**.63**	.61	**1.38**	1.25	**1.30**	----	**10.30**	9.00	**3.32**	3.00	**16.62**	14.60

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Ford Motor Co., Detroit, Mich.													
Ammonium Sulphate	Denton	----	----	**25.46**	25.30	----	----	----	----	----	----	----	----
Frederick Mehring Fertilizer Works, Inc., Keymar, Md.													
Acid Phosphate	Keymar	----	----	----	----	**.55**	----	**18.85**	16.00	----	----	**$15.16**	$12.80
Big Four	Keymar	**.66**	.73	**1.09**	1.00	**.85**	----	**9.15**	9.00	**4.36**	4.00	**15.30**	14.40
Big Four	Hagerstown	**.88**	.73	**1.02**	1.00	**1.00**	----	**9.30**	9.00	**4.36**	4.00	**15.16**	14.40
Mammoth Truck Grower	Hagerstown	**1.29**	1.30	**1.77**	2.00	**1.40**	----	**8.10**	8.00	**5.28**	5.00	**17.99**	18.40
Mammoth Truck Grower	Keymar	**1.42**	1.30	**1.86**	2.00	**1.30**	----	**8.20**	8.00	**5.32**	5.00	**18.46**	18.40
Potash Mixture	Keymar	----	----	----	----	**.70**	----	**12.60**	12.00	**5.36**	5.00	**14.48**	13.60
Griffith & Boyd Co., Baltimore, Md.													
Acid Phosphate H. G.	Baltimore	----	----	----	----	**.20**	----	**17.80**	16.00	----	----	**14.27**	12.80
General Crop Grower	Baltimore	**1.02**	.48	**2.15**	2.00	**.35**	----	**9.45**	9.00	**3.28**	3.00	**18.83**	17.60
High Grade Economizer	Chewsville	**1.29**	----	**1.87**	2.00	**1.00**	----	**12.90**	12.00	**4.74**	5.00	**21.74**	21.60
Pure Fine Ground Bone Meal	Baltimore	----	----	**4.61**	4.50	----	----	***22.10**	***20.00**	----	----	**31.70**	30.00
Royal Potash Guano	Baltimore	**.72**	.24	**1.13**	1.00	**.85**	----	**9.45**	9.00	**4.28**	4.00	**15.63**	14.40
Royal Potash Guano	Baltimore	**.70**	.24	**1.04**	1.00	**.90**	----	**9.40**	9.00	**4.64**	4.00	**15.53**	14.40
Special Grain Grower	Baltimore	----	----	----	----	**.40**	----	**12.70**	12.00	**5.96**	5.00	**14.99**	13.60
Special Grain Grower	Baltimore	----	----	----	----	**.50**	----	**12.50**	12.00	**6.06**	5.00	**14.93**	13.60
Special Guano	Baltimore	**1.47**	.48	**1.98**	2.00	**.50**	----	**8.30**	8.00	**6.48**	5.00	**19.82**	18.40
Special Guano	Laurel	**1.48**	.48	**1.91**	2.00	**.40**	----	**8.20**	8.00	**5.36**	5.00	**18.55**	18.40
X X Potash Manure	Baltimore	----	----	----	----	**.65**	----	**10.55**	10.00	**5.36**	5.00	**12.83**	12.00
X X Potash Manure	Baltimore	----	----	----	----	**.70**	----	**10.80**	10.00	**5.36**	5.00	**13.04**	12.00
X X Potash Manure	Baltimore	----	----	----	----	**.55**	----	**10.75**	10.00	**5.36**	5.00	**12.97**	12.00

Griffith & Turner Co., Balto., Md.														
Ammoniated Alkaline Plant Food	Baltimore	.57	.24	1.35	1.00	.70	----	6.70	6.50	1.80	1.50	12.31	10.40
Animal Bone Phosphate	Baltimore	1.38	.60	2.35	2.50	2.60	----	10.00	10.00	2.42	1.50	19.73	19.20
Gritco X L Plant Food	Baltimore	2.86	----	3.64	5.00	1.10	----	9.60	8.00	3.68	3.50	25.35	29.20
Soft Ground Bone Meal	Baltimore	----	----	3.40	3.00	----	----	*12.60	*11.00	----	----	21.16	18.60
Special Truck Mixture	Baltimore	2.81	.97	3.75	4.00	.80	----	8.70	8.00	6.46	6.00	27.25	27.20
Gro-Wer Plant Food Co., Westminster, Md.													
Gro-Wer Plant Food	Westminster	----	----	3.61	8.00	----	----	*10.00	----	5.32	6.00	----	----
Hagerstown Spray Material Co., Hagerstown, Md.													
Nitrate of Soda	Smithsburg	----	----	18.70	18.07	----	----	----	----	----	----	----	----
Hampstead Fertilizer Co., Hampstead, Md.													
1-8-4	Hampstead	.57	.60	1.01	1.00	1.00	----	8.80	8.00	4.64	4.00	14.94	13.60
2-8-5	Hampstead	1.24	1.00	1.67	2.00	1.15	----	8.75	8.00	5.68	5.00	18.39	18.40
2-8-4	Hampstead	1.09	----	1.64	2.00	1.05	----	8.75	8.00	4.62	4.00	17.42	17.60
Herbert F. Harr, Cockeysville, Md.													
2-8-5	Cockeysville	2.08	1.00	2.85	2.00	1.10	----	8.70	8.00	6.00	5.00	23.33	18.40
2-8-2	Cockeysville	1.34	1.00	2.12	2.00	1.10	----	9.20	8.00	3.06	2.00	18.46	16.00
Horsey, Roe & Co., Greensboro, Md.													
Acid Phosphate	Greensboro	----	----	----	----	.50	----	17.50	16.00	----	----	14.08	12.80
Corn Grower	Greensboro	----	----	----	----	.40	----	8.60	8.00	8.28	7.00	13.56	12.00
Crop Grower	Greensboro	.60	.33	1.04	1.00	.65	----	9.95	9.00	5.64	4.00	16.73	14.40
0-12-5	Greensboro	----	----	----	----	.70	----	13.80	12.00	5.12	5.00	15.25	13.60
0-12-5	Greensboro	----	----	----	----	.40	----	14.00	12.00	5.36	5.00	15.55	13.60
Hubbard Fert. Co., Baltimore, Md.													
Acid Phosphate	Baltimore	----	----	----	----	1.30	----	16.50	16.00	----	----	13.40	12.80
Acid Phosphate	Baltimore	----	----	----	----	1.60	----	16.20	16.00	----	----	13.20	12.80
Acid Phosphate	Baltimore	----	----	----	----	1.00	----	17.10	16.00	----	----	13.83	12.80
Acid Phosphate	Baltimore	----	----	----	----	1.15	----	16.05	16.00	----	----	13.01	12.80

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Hubbart Fert. Co., Balto., Md.—Cont.													
Alkaline 0-12-5	Baltimore	----	----	----	----	**1.50**	----	**12.10**	12.00	**5.08**	5.00	**$13.97**	$13.60
Money Maker Fertilizer	Vienna	**1.33**	1.00	**2.00**	2.00	**.75**	----	**8.45**	8.00	**5.00**	5.00	**18.87**	18.40
Money Maker Fertilizer	Vienna	**1.43**	1.00	**1.98**	2.00	**.95**	----	**8.45**	8.00	**5.70**	5.00	**19.38**	18.40
Kuttroff, Pickhardt & Co., Inc., New York, N, Y..													
Floranid	Baltimore	**55.83**	----	**56.00**	55.93	----	----	----	----	----	----	----	----
Lumber Coal & Supply Co., Union Bridge, Md.													
1-9-3	Union Bridge	**.97**	.49	**1.57**	1.00	**1.25**	----	**9.25**	9.00	**3.54**	3.00	**16.70**	13.60
2-8-5	Union Bridge	**1.16**	1.00	**2.03**	2.00	**2.10**	----	**8.60**	8.00	**5.24**	5.00	**19.51**	18.40
Maryland Milling & Supply Co., Sykesville, Md.													
Acid Phosphate H. G.	Sykesville	----	----	----	----	**.60**	----	**17.80**	16.00	----	----	**14.33**	12.80
Newmans "Favorite"	Sykesville	**1.04**	----	**1.91**	2.00	**1.53**	----	**7.27**	8.00	**5.20**	5.00	**17.85**	18.40
Phosphate and Potash	Sykesville	----	----	----	----	**1.00**	----	**11.70**	10.00	**5.88**	5.00	**14.21**	12.00
Phosphate and Potash	Sykesville	----	----	----	----	**1.50**	----	**13.50**	12.00	**5.28**	5.00	**15.25**	13.60
2-12-5	Sykesville	**1.00**	----	**2.06**	2.00	**1.85**	----	**11.95**	12.00	**5.36**	5.00	**22.37**	21.60
Warfield "Special" Mixture	Sykesville	**.62**	----	**1.08**	1.00	**1.05**	----	**9.65**	8.00	**5.02**	4.00	**16.22**	13.60
Massey & Wilmer, Chestertown, Md.													
Acid Phosphate H. G.	Chestertown	----	----	----	----	**.80**	----	**18.00**	16.00	----	----	**14.52**	12.80
Crop Producer Superphosphate	Chestertown	**.42**	----	**1.02**	1.00	**1.15**	----	**10.75**	9.00	**4.28**	4.00	**16.27**	14.40

Superphosphate 1-9-4	Chestertown	.62	----	1.06	1.00	1.20	----	9.40	9.00	4.12	4.00	15.24	14.40
Superphosphate 0-10-5	Chestertown	----	----	----	----	1.60	----	10.00	10.00	5.84	5.00	12.91	12.00
Superphosphate 0-12-5	Chestertown	----	----	----	----	1.80	----	12.00	12.00	5.36	5.00	14.16	13.60
Superphosphate 0-12-5	Chestertown	----	----	----	----	1.25	----	12.15	12.00	6.02	5.00	14.73	13.60
Medford Fert. Works, Medford, Md.													
1-8-5	Medford	.56	.25	1.04	1.00	.70	----	9.20	8.00	5.36	5.00	15.92	14.40
1-10-5	Medford	.54	.25	1.09	1.00	1.20	----	10.50	10.00	5.94	5.00	17.69	16.00
2-8-5	Medford	1.12	.25	1.80	2.00	.35	----	9.65	8.00	5.36	5.00	19.26	18.40
Miller Fertilizer Co., Baltimore, Md.													
Acid Phosphate	Williamsport	----	----	----	----	.60	----	17.90	16.00	----	----	14.41	12.80
Acid Phosphate	Baltimore	----	----	----	----	.78	----	16.67	16.00	----	----	13.45	12.80
Farmers Profit	Baltimore	1.57	----	2.06	2.00	.50	----	10.15	10.00	4.08	4.00	19.70	19.20
4-8-7	Elkton	3.65	3.00	4.16	4.00	.60	----	8.30	8.00	7.36	7.00	29.26	28.00
Harvest Queen	Alesia	.58	----	1.09	1.00	.95	----	8.85	9.00	4.28	4.00	15.00	14.40
Harvest Queen	Baltimore	.52	----	1.01	1.00	.78	----	9.02	9.00	4.28	4.00	14.80	14.40
2-8-5	Laurel	1.40	1.00	1.98	2.00	1.30	----	8.40	8.00	5.32	5.00	19.10	18.40
2-8-5	Woodbine	1.52	1.00	1.98	2.00	.80	----	8.10	8.00	5.00	5.00	18.52	18.40
2-8-5	Forest Hill	1.57	1.00	2.08	2.00	.65	----	8.35	8.00	5.28	5.00	19.32	18.40
2-12-4	Elkton	1.84	1.00	2.15	2.00	.85	----	12.55	12.00	4.00	4.00	21.97	20.80
2-12-4	Forest Hill	2.90	1.00	3.36	2.00	.80	----	12.00	12.00	4.00	4.00	26.36	20.80
0-12-5	Baltimore	----	----	----	----	1.35	----	12.75	12.00	5.28	5.00	14.62	13.60
0-12-5	Woodbine	----	----	----	----	.85	----	12.25	12.00	5.32	5.00	14.19	13.60
0-12-5	Baltimore	----	----	----	----	.88	----	12.57	12.00	5.20	5.00	14.35	13.60
Wheat and Grass Grower	Baltimore	1.49	1.00	2.00	2.00	1.10	----	12.50	12.00	2.20	2.00	19.93	19.20
Scott's Potato and Truck Special	Elkton	1.53	1.00	1.96	2.00	.80	----	8.60	8.00	5.00	5.00	18.84	18.40
Scott's Soluble Phosphate and Potash	Elkton	----	----	----	----	1.20	----	12.40	12.00	5.68	5.00	14.64	13.60
Scott's Special Grain Grower	Elkton	.53	.52	1.04	1.00	.85	----	9.55	9.00	4.24	4.00	15.32	14.40
Scott's Sure Growth Superphosphate	Elkton	1.47	1.00	2.05	2.00	.85	----	9.15	9.00	3.50	3.00	18.45	17.60
Scott's Tip Top Soluble Phosphate	Elkton	----	----	----	----	1.10	----	16.00	16.00	----	----	12.97	12.80
G. Ober & Sons Co., Baltimore, Md.													
Acid Phosphate H. G.	Baltimore	----	----	----	----	2.00	----	16.10	16.00	----	----	13.18	12.80
Acid Phosphate H. G.	Baltimore	----	----	----	----	1.60	----	16.70	16.00	----	----	13.60	12.80
Acid Phosphate H. G.	Baltimore	----	----	----	----	1.70	----	17.40	16.00	----	----	14.18	12.80
Bone Mixture	Baltimore	1.25	1.60	1.98	2.00	5.85	----	8.15	9.00	5.16	5.00	19.45	19.20

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
G. Ober & Sons Co., Baltimore, Md. —Continued													
Bone Mixture	Baltimore	**1.40**	1.60	**2.12**	2.00	**5.55**	----	**8.35**	9.00	**5.20**	5.00	**$20.15**	$19.20
Bone Mixture	Baltimore	**1.14**	1.60	**1.99**	2.00	**5.20**	----	**8.70**	9.00	5.36	5.00	**19.99**	19.20
Bone Mixture	Baltimore	**1.57**	1.60	**2.06**	2.00	**2.30**	----	**9.30**	9.00	**5.36**	5.00	20.32	19.20
Refined Ground Bone	Baltimore	----	----	**5.17**	4.50	----	----	***22.60**	*21.00	----	----	**34.24**	30.60
Refined Ground Bone	Baltimore	----	----	**4.24**	4.50	----	----	***23.40**	*21.00	----	----	**31.00**	30.60
Ground Tankage	Baltimore	----	----	**7.76**	9.00	----	----	----	----	----	----	----	----
Ground Tankage	Baltimore	----	----	**8.94**	9.00	----	----	----	----	----	----	----	----
Special Plant Food	Baltimore	**1.59**	1.60	**1.88**	2.00	**2.20**	----	**9.60**	9.00	**5.04**	5.00	**19.56**	19.20
Special Plant Food	Baltimore	**1.53**	1.60	**1.84**	2.00	**1.60**	----	**9.00**	9.00	**5.16**	5.00	**18.93**	19.20
Special Plant Food	Baltimore	**1.69**	1.60	**1.98**	2.00	**1.60**	----	**9.20**	9.00	**5.20**	5.00	**19.68**	19.20
Special Plant Food	Baltimore	**1.69**	1.60	**2.00**	2.00	**1.60**	----	**9.00**	9.00	**5.20**	5.00	**19.60**	19.20
Stag Guano	Baltimore	**.68**	.80	**.99**	1.00	**1.70**	----	**9.20**	9.00	**4.08**	4.00	**14.84**	14.40
Stag Guano	Baltimore	**.84**	.80	**1.11**	1.00	**1.75**	----	**9.00**	9.00	**4.08**	4.00	**15.16**	14.40
Stag Guano	Baltimore	**.77**	.80	**1.06**	1.00	**1.35**	----	**9.05**	9.00	**4.00**	4.00	**14.88**	14.40
Starkey Truck Compound	Baltimore	**3.53**	3.20	**3.99**	4.00	**1.50**	----	**8.20**	8.00	**4.88**	5.00	**26.65**	26.40
Superior Potato and Vegetable Grower	Baltimore	**1.45**	1.60	**1.74**	2.00	**2.10**	----	**8.60**	8.00	**10.40**	10.00	**22.48**	22.40
Super Wheat and Grain Grower	Baltimore	**2.39**	2.40	**2.73**	3.00	**2.20**	----	**11.80**	12.00	**3.36**	3.00	**23.38**	24.00
Swan (E) Fish Guano	Baltimore	**1.40**	1.60	**1.66**	2.00	**1.80**	----	**9.70**	9.00	**3.00**	3.00	**17.07**	17.60
Swan (E) Fish Guano	Baltimore	**1.69**	1.60	**1.91**	2.00	**2.30**	----	**9.20**	9.00	**3.60**	3.00	**18.23**	17.60
Swan (E) Fish Guano	Baltimore	**1.64**	1.60	**1.98**	2.00	**2.35**	----	**9.35**	9.00	**3.36**	3.00	**18.44**	17.60
Twelve and Five Potash Compound	Baltimore	----	----	----	----	**2.55**	----	**12.25**	12.00	**5.20**	5.00	**14.34**	13.60
Twelve and Five Potash Compound	Baltimore	----	----	----	----	**2.70**	----	**11.90**	12.00	**5.32**	5.00	**14.19**	13.60
Twelve and Five Potash Compound	Baltimore	----	----	----	----	**1.65**	----	**12.15**	12.00	**5.58**	5.00	**14.43**	13.60
Twelve and Five Potash Compound	Baltimore	----	----	----	----	**1.65**	----	**12.15**	12.00	**5.32**	5.00	**14.23**	13.60

Old Gardener Co., Pittsburgh, Pa.													
Old Gardener Fertilizer	Baltimore	**2.80**	----	**3.04**	3.04	**3.18**	----	**8.77**	10.00	**5.36**	4.00	**23.95**	23.36
Oyler & Spangler, Gettysburg, Pa.													
Excelsior	Emmitsburg	**1.39**	----	**2.00**	2.00	**1.50**	----	**8.20**	8.00	**5.00**	5.00	**18.79**	18.40
Excelsior	Emmitsburg	**1.77**	----	**2.35**	2.00	**1.25**	----	**9.00**	8.00	**4.44**	5.00	**20.34**	18.40
Potash Special	Emmitsburg	----	----	----	----	**1.05**	----	**13.15**	12.00	**4.52**	5.00	**14.30**	13.60
Pacific Manure & Fertilizer Co., San Francisco, Calif.													
Grozit Brand Pulverized Sheep Manure	Baltimore	----	----	**1.55**	1.80	----	----	* **.80**	* 1.25	**2.56**	3.00	**8.73**	10.35
Patuxent Guano Co., Balto., Md.													
Acid Phosphate H. G.	Baltimore	----	----	----	----	**1.80**	----	**16.20**	16.00	----	----	**13.23**	12.80
Champion Fertilizer	Baltimore	**1.39**	1.02	**2.00**	2.00	**1.05**	----	**8.25**	8.00	**5.24**	5.00	**18.95**	18.40
Champion Fertilizer	Baltimore	**1.74**	1.02	**2.12**	2.00	**1.10**	----	**8.80**	8.00	**5.00**	5.00	**19.69**	18.40
Champion Fertilizer	Baltimore	**1.66**	1.02	**2.00**	2.00	**1.30**	----	**8.20**	8.00	**5.58**	5.00	**19.22**	18.40
Champion Fertilizer	Baltimore	**1.57**	1.02	**1.98**	2.00	**1.10**	----	**8.70**	8.00	**5.04**	5.00	**19.08**	18.40
Plant Food	Baltimore	**1.28**	1.02	**1.93**	2.00	**1.60**	----	**12.20**	12.00	**4.28**	4.00	**21.14**	20.80
Peerless Fert. Co., Chestertown, Md.													
Acid Phosphate	Chestertown	----	----	----	----	**.75**	----	**16.85**	16.00	----	----	**13.59**	12.80
Acid Phosphate	Chestertown	----	----	----	----	**.80**	----	**17.00**	16.00	----	----	**13.72**	12.80
Bone Special	Chestertown	----	----	**.56**	.50	**.70**	----	**10.50**	10.00	**4.60**	4.00	**14.43**	13.20
Imperial Compound	Chestertown	**.82**	.48	**1.16**	1.00	**1.75**	----	**9.35**	9.00	**4.04**	4.00	**15.61**	14.40
Imperial Compound	Chestertown	**.85**	.48	**1.19**	1.00	**1.55**	----	**9.05**	9.00	**4.32**	4.00	**15.69**	14.40
Peerless 2-8-5	Chestertown	**1.61**	.90	**1.95**	2.00	**.65**	----	**8.85**	8.00	**5.36**	5.00	**19.27**	18.40
Peerless 2-8-5	Chestertown	**1.63**	.90	**2.06**	2.00	**1.40**	----	**8.00**	8.00	**5.32**	5.00	**19.11**	18.40
Rock and Kainit	Chestertown	----	----	----	----	**1.20**	----	**8.70**	8.00	**6.36**	6.00	**12.23**	11.20
2-12-4	Chestertown	**1.81**	.90	**2.15**	2.00	**.20**	----	**12.70**	12.00	**4.32**	4.00	**22.25**	20.80
0-12-5	Chestertown	----	----	----	----	**1.35**	----	**12.35**	12.00	**5.08**	5.00	**14.14**	13.60
0-12-5	Chestertown	----	----	----	----	**.45**	----	**13.95**	12.00	**5.32**	5.00	**15.49**	13.60

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Piedmont Mt. Airy Guano Co., Baltimore, Md.													
Acid Phosphate	Baltimore	----	----	----	----	**1.60**	----	**16.00**	16.00	----	----	$\$$**13.04**	$12.80
Acid Phosphate	Baltimore	----	----	----	----	**1.35**	----	**14.80**	16.00	----	----	**12.04**	12.80
Farmers Favorite	Woodsboro	**.46**	.32	**1.04**	1.00	**1.58**	----	**8.77**	9.00	**4.20**	4.00	**14.78**	14.40
Harvest Queen	Laurel	**.53**	.32	**1.11**	1.00	**1.55**	----	**8.05**	8.00	**4.36**	4.00	**14.60**	13.60
Perfection Guano	Woodsboro	**1.35**	.67	**1.91**	2.00	**1.30**	----	**8.10**	8.00	**6.52**	5.00	**19.54**	18.40
Perfection Guano	Laurel	**1.17**	.67	**1.72**	2.00	**1.60**	----	**8.20**	8.00	**4.56**	5.00	**17.33**	18.40
Standard	Laurel	**1.80**	.67	**2.35**	2.00	**1.73**	----	**8.57**	9.00	**4.48**	3.00	**20.10**	17.60
Potash Mixture	Baltimore	----	----	----	----	**.95**	----	**10.05**	10.00	**3.86**	4.00	**11.27**	11.20
Wheat Compound	Baltimore	----	----	----	----	**1.60**	----	**12.20**	12.00	**5.44**	5.00	**14.35**	13.60
Plant Products Co., Baltimore, Md.													
Plantabbs	Baltimore	----	----	**13.34**	13.37	----	----	***18.60**	*15.00	**26.56**	20.00	**85.77**	78.48
Pulverized Manure Co., Chicago, Ill.													
Wizard Brand Cattle Manure	Baltimore	----	----	**2.80**	2.10	----	----	*** 1.40**	* 1.00	**1.28**	1.00	**13.06**	9.80
Wizard Brand Pulverized Sheep Manure	Baltimore	----	----	**2.34**	2.43	----	----	*** .70**	* 1.25	**2.16**	2.00	**11.51**	12.07
Ramsburg Fert. Co., Frederick, Md.													
Ammoniated Bone Phosphate	Frederick	**.38**	.70	**.99**	1.00	**1.70**	----	**12.00**	10.00	**3.04**	3.00	**16.25**	14.40
Ammoniated Bone Phosphate	Lewistown	**.52**	.70	**1.01**	1.00	**1.85**	1.00	**11.75**	10.00	**3.78**	3.00	**16.74**	14.40
Excelsior Half and Half	Frederick	**.65**	.85	**1.14**	1.00	**1.20**	----	**12.60**	10.00	**2.70**	2.00	**16.98**	13.60
Excelsior Plant Food	Frederick	**1.11**	.70	**1.98**	2.00	**2.15**	----	**12.45**	12.00	**2.28**	2.00	**20.02**	19.20
Old Virginia Compound	Frederick	**.38**	.85	**1.06**	1.00	**1.55**	----	**12.65**	10.00	**4.62**	5.00	**18.29**	16.00

Special Rock and Potash	Frederick	----	----	----	----	1.20	----	15.80	12.00	4.02	5.00	16.04	13.60
Super Phosphate	Frederick	----	----	----	----	.90	----	17.00	16.00	----	----	13.74	12.80
Super Phosphate	Frederick	----	----	----	----	.90	----	17.10	16.00	----	----	13.82	12.80
Rasin-Monumental Co., Balto., Md.													
Royal Fish and Potash Mixture	Baltimore	2.67	1.02	3.47	2.00	.75	----	8.95	9.00	4.04	3.00	24.38	17.60
Reindollar Co., Taneytown, Md.													
Acid Phosphate	Taneytown	----	----	----	----	.90	----	16.95	16.00	----	----	13.70	12.80
Grain Grower	Taneytown	1.52	----	2.12	2.00	1.30	----	11.50	10.00	5.36	5.00	22.17	20.00
Rock and Potash	Taneytown	----	----	----	----	1.18	----	14.17	12.00	6.20	6.00	16.48	14.40
Potomac View Farms Co., Silesia, Md.													
Animal Tankage	Silesia	----	----	9.45	10.00	----	----	----	----	----	----	----	----
W. E. Robinson & Co., Bel Air, Md.													
Kainit	Fallston	----	----	----	----	----	----	----	----	17.44	12.00	----	----
Special Mixture	Fallston	1.45	1.37	2.17	2.00	.20	----	8.50	8.00	5.46	5.00	19.88	18.40
Truck and Tomato Grower	Fallston	3.36	1.33	4.16	4.00	.35	----	8.05	8.00	4.12	4.00	26.43	25.60
Truck and Tomato Grower	Fallston	3.43	1.33	4.03	4.00	.90	----	9.00	8.00	4.24	4.00	26.85	25.60
F. S. Royster Guano Co., Balto., Md.													
Acid Phosphate	Baltimore	----	----	----	----	1.25	----	16.15	16.00	----	----	13.11	12.80
Banner Guano	Baltimore	1.27	----	1.95	2.00	1.90	----	8.30	8.00	10.40	10.00	23.05	22.40
Bully Guano	Baltimore	1.14	1.33	2.03	2.00	1.35	----	8.35	8.00	5.16	5.00	19.13	18.40
Bully Guano	Washington Grove	1.64	1.33	2.25	2.00	.95	----	8.65	8.00	5.00	5.00	20.06	18.40
Comet Guano	Baltimore	2.27	2.00	2.92	3.00	1.70	----	10.30	10.00	5.60	6.00	24.66	24.80
Fish, Flesh and Fowl	Washington Grove	1.53	1.33	2.08	2.00	1.75	----	9.15	9.00	3.04	3.00	18.33	17.60
Phosphate and Potash	Baltimore	----	----	----	----	2.10	----	11.90	12.00	5.24	5.00	14.03	13.60
Phosphate and Potash	Baltimore	----	----	----	----	1.60	----	12.40	12.00	5.20	5.00	14.32	13.60
Rational Guano	Baltimore	.53	.80	1.02	1.00	2.20	----	9.00	9.00	4.04	4.00	14.84	14.40
W. A. Simpson Co., Baltimore, Md.													
Purity Brand Pulverized Sheep Manure	Baltimore	----	----	1.84	1.83	----	----	* .90	* 1.25	3.00	3.00	10.30	10.47

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
R. H. Slingluff Fertilizer Co., Baltimore, Md.													
General Crop Grower	Baltimore	**1.55**	.60	**1.98**	2.00	**1.20**	----	**8.60**	8.00	**4.86**	3.00	$18.87	$16.80
Harvest Queen	Baltimore	**.65**	.60	**.99**	1.00	**1.45**	----	**9.15**	9.00	**4.28**	4.00	**14.92**	14.40
Sidney R. Solomon, Raspeburg, Md.													
Bone Meal	Raspeburg	----	----	**3.86**	3.00	----	----	***24.20**	*23.00	----	----	**29.96**	25.80
Bone Meal	Baltimore	----	----	**3.41**	3.00	----	----	***24.30**	*23.00	----	----	**28.22**	25.80
4-8-4	Raspeburg	**2.61**	.92	**4.42**	4.00	**1.20**	----	**8.30**	8.00	**4.36**	4.00	**27.99**	25.60
2-8-5	Baltimore	**1.40**	.92	**2.29**	2.00	**1.30**	----	**8.40**	8.00	**5.16**	5.00	**20.21**	18.40
Stumpp & Walter Co., Balto., Md.													
Emerald Grass Fertilizer	Baltimore	**2.97**	2.92	**3.62**	3.65	**.55**	----	**6.30**	5.00	**1.96**	3.00	**21.17**	21.00
General Garden Fertilizer	Baltimore	**5.01**	2.60	**5.52**	4.00	**.45**	----	**8.05**	8.00	**3.00**	3.00	**30.99**	24.80
Ground Dried Blood	Baltimore	----	----	**13.85**	16.00	----	----	----	----	----	----	----	----
Nitrate of Soda	Baltimore	----	----	**18.80**	18.00	----	----	----	----	----	----	----	----
Pulverized Sheep Manure	Baltimore	----	----	**2.33**	2.50	----	----	***1.40**	* 1.50	**1.60**	1.50	**11.44**	12.10
Raw Bone Meal	Baltimore	----	----	**6.18**	4.50	----	----	***19.30**	*20.00	----	----	**36.30**	30.00
Summers Fert. Co., Baltimore, Md.													
"Best on Earth" All Crop Grower	Rockville	**1.35**	1.00	**1.98**	2.00	**1.05**	----	**8.35**	8.00	**5.36**	5.00	**19.05**	18.40
"Best on Earth" Muriate of Potash	Smithsburg	----	----	----	----	----	----	----	----	**50.40**	48.00	----	----
"Best on Earth" Phospho-Potash Mix	Gaithersburg	----	----	----	----	**1.15**	----	**12.95**	12.00	**5.00**	5.00	**14.53**	13.60
"Best on Earth" 3-8-8	Baltimore	**2.30**	1.50	**2.73**	3.00	**.60**	----	**9.10**	8.00	**7.28**	8.00	**24.11**	24.80
"Best on Earth" 3-12-5	Olney	**2.47**	1.50	**2.98**	3.00	**.60**	----	**12.00**	12.00	**5.16**	5.00	**25.74**	25.60
"Best on Earth" 3-12-5	Gaithersburg	**2.32**	1.50	**3.04**	3.00	**.90**	----	**12.00**	12.00	**5.32**	5.00	**26.16**	25.60

"Best on Earth" Wheat Special	Olney	**1.45**	1.00	**2.08**	2.00	**.95**	----	**12.35**	12.00	**2.36**	2.00	**20.23**	19.20
"Best on Earth" Wheat Special	Reisterstown	**1.36**	1.00	**2.18**	2.00	**.85**	----	**12.25**	12.00	**2.32**	2.00	**20.51**	19.20
Swift & Co., Baltimore, Md.													
Acid Phosphate H. G.	Cockeysville	----	----	----	----	**.70**	----	**17.20**	16.00	----	----	**13.87**	12.80
Bone Meal Fertilizer	Aberdeen	----	----	**3.81**	3.00	----	----	***23.55**	*24.00	----	----	**29.37**	26.40
Kainit	Baltimore	----	----	----	----	----	----	----	----	**11.68**	12.40	----	----
Muriate of Potash	Friendsville	----	----	----	----	----	----	----	----	**52.30**	48.00	----	----
Raw Bone Meal	Annapolis	----	----	**5.28**	4.50	----	----	***18.80**	*20.00	----	----	**32.40**	30.00
Tankage	Baltimore	----	----	**7.63**	6.00	----	----	* **8.15**	*12.00	----	----	**35.41**	31.20
Red Steer 4-12-4	Baltimore	**3.64**	2.60	**3.98**	4.00	**.65**	----	**12.85**	12.00	**4.36**	4.00	**29.79**	28.80
Red Steer 1-9-4	Cockeysville	**.73**	.60	**.99**	1.00	**.85**	----	**9.25**	9.00	**4.28**	4.00	**14.91**	14.40
Red Steer 1-9-4	Baltimore	**.73**	.60	**.99**	1.00	**.95**	----	**9.65**	9.00	**4.00**	4.00	**15.02**	14.40
Red Steer 2-8-5	Baltimore	**1.62**	1.21	**2.01**	2.00	**.70**	----	**8.30**	8.00	**5.00**	5.00	**18.79**	18.40
Red Steer 2-8-5	Baltimore	**1.69**	1.21	**2.03**	2.00	**.75**	----	**8.35**	8.00	**5.04**	5.00	**18.94**	18.40
Red Steer 2-8-5	Cockeysville	**1.76**	1.21	**2.10**	2.00	**.75**	----	**8.45**	8.00	**5.08**	5.00	**19.33**	18.40
Red Steer 2-12-4	Baltimore	**1.74**	1.00	**2.08**	2.00	**1.55**	----	**12.15**	12.00	**4.20**	4.00	**21.63**	20.80
Red Steer 2-12-2	Baltimore	**1.60**	1.21	**2.08**	2.00	**1.25**	----	**12.15**	12.00	**2.04**	2.00	**19.86**	19.20
Red Steer 2-12-2	Baltimore	**1.80**	1.21	**2.18**	2.00	**1.15**	----	**12.00**	12.00	**2.16**	2.00	**20.22**	19.20
Red Steer 2-16-8	Baltimore	**1.88**	1.21	**2.08**	2.00	**.95**	----	**16.35**	16.00	**8.16**	8.00	**28.07**	27.20
Red Steer 0-12-5	Baltimore	----	----	----	----	**1.20**	----	**12.00**	12.00	**5.10**	5.00	**13.86**	13.60
Red Steer 0-12-5	Baltimore	----	----	----	----	**1.55**	----	**12.05**	12.00	**5.24**	5.00	**14.06**	13.60
Red Steer 0-10-4	Baltimore	----	----	----	----	**1.35**	----	**12.25**	12.00	**5.04**	5.00	**14.03**	13.60
Red Steer 3-12-3	Ellicott City	**2.64**	1.95	**3.07**	3.00	**1.20**	----	**10.30**	10.00	**4.00**	4.00	**11.62**	11.20
						.95	----	**12.15**	12.00	**3.28**	3.00	**24.76**	24.00
Talbot Fertilizer Co., Easton, Md.													
0-12-5	Cordova	----	----	----	----	**.80**	----	**12.20**	12.00	**4.58**	5.00	**13.54**	13.60
Thomas & Co., Gaithersburg, Md.													
Acid Phosphate	Frederick	----	----	----	----	**.50**	----	**18.50**	16.00	----	----	**14.88**	12.80
Alkaline Bone	Frederick	----	----	----	----	**.45**	----	**12.55**	12.00	**6.22**	5.00	**15.09**	13.60
Alkaline Bone	Gaithersburg	----	----	----	----	**1.40**	----	**11.65**	12.00	**5.04**	5.00	**13.56**	13.60
Excelsior	Gaithersburg	----	----	----	----	**1.15**	----	**12.65**	12.00	**4.02**	5.00	**13.51**	13.60
Harvest Queen	Frederick	**1.74**	----	**2.17**	2.00	**.80**	----	**14.00**	12.00	**1.48**	3.00	**21.18**	20.00
Wheat and Grass Grower	Gaithersburg	**.26**	.55	**1.06**	1.25	**1.95**	----	**10.95**	10.00	**2.72**	2.00	**15.47**	14.60
	Gaithersburg	**1.45**	.50	**1.88**	2.00	**1.20**	----	**9.20**	8.00	**5.12**	5.00	**19.16**	18.40

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Wm. B. Tilghman Co., Salisbury, Md.													
Acid Phosphate	Salisbury	----	----	----	----	**2.50**	----	**16.40**	16.00	----	----	**$13.50**	$12.80
Acid Phosphate	Salisbury	----	----	----	----	**1.25**	----	**16.15**	16.00	----	----	**13.11**	12.80
Bone Tankage Mixture	Salisbury	**1.76**	1.00	**2.10**	2.00	**1.90**	----	**12.80**	12.00	**4.04**	4.00	**22.16**	20.80
Bone Tankage Mixture	Salisbury	**1.82**	1.00	**2.30**	2.00	**.90**	----	**12.60**	12.00	**4.08**	4.00	**22.68**	20.80
Bone Tankage Mixture	Vienna	**2.05**	1.00	**2.39**	2.00	**.60**	----	**13.00**	12.00	**4.12**	4.00	**23.35**	20.80
High Grade Potash Mixture	Salisbury	**1.45**	1.00	**2.00**	2.00	**1.30**	----	**8.90**	8.00	**10.32**	10.00	**23.58**	22.40
High Grade Potash Mixture	Salisbury	**1.64**	1.00	**2.15**	2.00	**1.45**	----	**9.35**	8.00	**10.96**	10.00	**25.07**	22.40
High Grade Potash Mixture	Salem	**1.58**	1.00	**1.99**	2.00	**1.65**	----	**8.00**	8.00	**11.92**	10.00	**24.15**	22.40
Irish P Guano	Salisbury	**5.45**	4.75	**6.83**	7.00	**.50**	----	**7.00**	6.00	**5.16**	5.00	**37.13**	36.80
Mixture "B"	Salisbury	**3.12**	2.25	**3.99**	4.00	**1.40**	----	**8.70**	8.00	**4.28**	4.00	**26.55**	25.60
Phosphate and Potash	Salisbury	----	----	----	----	**1.30**	----	**12.40**	12.00	**5.20**	5.00	**14.28**	13.60
Phosphate and Potash	Salisbury	----	----	----	----	**.90**	----	**12.70**	12.00	**5.36**	5.00	**14.59**	13.60
Special Corn Fertilizer	Salisbury	**.53**	.50	**1.13**	1.00	**1.35**	----	**10.65**	10.00	**5.36**	5.00	**17.53**	16.00
Standard	Salisbury	**1.52**	1.00	**2.15**	2.00	**1.30**	----	**8.70**	8.00	**5.36**	5.00	**20.05**	18.40
Standard	Vienna	**1.64**	1.00	**2.15**	2.00	**1.55**	----	**8.25**	8.00	**6.14**	5.00	**20.34**	18.40
Wheat Mixture	Salisbury	**.85**	.50	**1.19**	1.00	**1.50**	----	**10.50**	10.00	**5.36**	5.00	**17.68**	16.00
Wheat Mixture	Salisbury	**.81**	.50	**1.61**	1.00	**1.35**	----	**10.15**	10.00	**5.08**	5.00	**18.82**	16.00
F. W. Tunnell & Co., Inc., Philadelphia, Pa.													
Acid Phosphate	Colora	----	----	----	----	**1.70**	----	**16.50**	16.00	----	----	**13.46**	12.80
Fish Manure with Potash	Colora	**1.21**	1.25	**1.98**	2.00	**1.20**	----	**10.60**	10.00	**6.76**	6.00	**21.99**	20.80
Muriate of Potash	Colora	----	----	----	----	----	----	----	----	**53.68**	50.00	----	----
Red Diamond Potato and Truck Guano	Colora	**1.40**	1.25	**2.05**	2.00	**.55**	----	**9.25**	8.00	**10.92**	10.00	**24.42**	22.40
Tankage 7%	Colora	----	----	**6.29**	7.00	----	----	----	----	----	----	----	----
Veribest Cereal Manure	Colora	**1.40**	1.25	**2.00**	2.00	**.85**	----	**9.05**	8.00	**5.72**	5.00	**19.95**	18.40

United States Guano Co., Balto., Md.														
Acid Phosphate	Baltimore	----	----	----	----	**1.10**	----	**18.30**	18.00	----	----	**14.81**	14.40
Acid Phosphate	Baltimore	----	----	----	----	**.50**	----	**17.30**	16.00	----	----	**13.92**	12.80
Acid Phosphate	Baltimore	----	----	----	----	**1.20**	----	**15.57**	16.00	----	----	**12.64**	12.80
High Grade Phosphate and Potash	Baltimore	----	----	----	----	**1.50**	----	**12.60**	12.00	**5.20**	5.00	**14.47**	13.60
High Grade Phosphate and Potash	Baltimore	----	----	----	----	**2.00**	----	**12.10**	12.00	**4.88**	5.00	**13.88**	13.60
General Use Guano	Baltimore	----	----	----	----	**1.55**	----	**12.35**	12.00	**5.12**	5.00	**14.21**	13.60
General Use Guano	Baltimore	**1.47**	.97	**1.98**	2.00	**1.45**	----	**12.75**	12.00	**4.36**	4.00	**21.83**	20.80
1-9-4	Baltimore	**1.29**	.97	**1.90**	2.00	**1.40**	----	**12.30**	12.00	**3.48**	4.00	**20.43**	20.80
Lime Phosphate	Baltimore	**.47**	.49	**.95**	1.00	**1.55**	----	**10.95**	9.00	**4.76**	4.00	**16.60**	14.40
Mammoth Potato Grower	Baltimore	----	----	----	----	**.85**	----	**16.45**	13.00	----	----	**13.29**	10.40
Mammoth Truck Grower	Baltimore	**1.35**	1.00	**2.10**	2.00	**2.15**	----	**8.55**	8.00	**10.40**	10.00	**23.88**	22.40
Mammoth Truck Grower	Owings Mills	**1.01**	1.00	**2.00**	2.00	**2.30**	----	**7.90**	8.00	**5.00**	5.00	**18.67**	18.40
Muriate of Potash	Baltimore	**1.23**	1.00	**2.05**	2.00	**1.80**	----	**8.40**	8.00	**5.00**	5.00	**19.19**	18.40
Old Fertility	Baltimore	----	----	----	----	----	----	----	----	**50.60**	50.00	----	----
Phosphate and Potash Mixture	Baltimore	**1.23**	.97	**2.03**	2.00	**1.90**	----	**8.50**	8.00	**3.32**	3.00	**17.87**	16.80
		----	----	----	----	**.70**	----	**11.50**	10.00	**9.48**	10.00	**16.89**	16.00
Valliant Fert. Co., Laurel, Del.													
Diamond	Princess Anne	**1.38**	1.00	**1.88**	2.00	**1.15**	----	**8.95**	8.00	**5.16**	5.00	**18.98**	18.40
Fam-us	Princess Anne	**.73**	.50	**1.11**	1.00	**1.20**	----	**9.70**	9.00	4.20	4.00	**15.74**	14.40
Harvest	Princess Anne	----	----	----	----	**1.15**	----	**12.75**	12.00	**5.36**	5.00	**14.66**	13.60
Harvest	Princess Anne	----	----	----	----	**.95**	----	**13.35**	12.00	**5.16**	5.00	**14.95**	13.60
Ideal	Princess Anne	**1.33**	----	**2.05**	2.00	**2.65**	----	**11.45**	10.00	**5.68**	5.00	**22.30**	20.00
E. S. Valliant & Son, Centreville, Md.													
Acid Phosphate	Centreville	----	----	----	----	**2.20**	----	**17.40**	16.00	----	----	**14.25**	12.80
Ammoniated Potash Mixture	Centrevillle	**.92**	.50	**1.06**	1.00	**.80**	----	**12.10**	11.00	**5.68**	5.00	**18.58**	16.80
Ammoniated Potash Mixture	Centreville	**.82**	.50	**1.16**	1.00	**.70**	----	**11.50**	11.00	**5.70**	5.00	**18.51**	16.80
Animal Bone Mixture	Centreville	**.58**	.50	**1.09**	1.00	**2.10**	----	**11.40**	11.00	**4.88**	4.00	**17.70**	16.00
Big Three	Centreville	**.65**	.50	**.99**	1.00	**1.00**	----	**9.50**	9.00	**5.12**	3.00	**15.81**	13.60
Fall Keystone	Centreville	**1.24**	1.00	**1.80**	2.00	**1.75**	----	**9.85**	9.00	**5.70**	5.00	**19.90**	19.20
Favorite	Centreville	**.63**	.60	**.90**	1.00	**.55**	----	**9.75**	9.00	**5.92**	5.00	**16.22**	15.20
Gem	Centreville	----	----	----	----	**.90**	----	**10.20**	10.00	**6.86**	5.00	**13.79**	12.00
Harvest	Centreville	----	----	----	----	**.85**	----	**12.15**	12.00	**5.36**	5.00	**14.14**	13.60
Ideal	Centreville	----	----	----	----	**.25**	----	**11.95**	12.00	**7.38**	6.00	**15.50**	14.40

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
E. S. Valliant & Son, Centreville, Md.—Continued													
Kainit	Centreville	----	----	----	----	----	----	----	----	**13.12**	12.40	$ ----	$ ----
Keystone	Centreville	**1.55**	1.00	**1.84**	2.00	**.75**	----	**10.05**	8.00	**5.88**	5.00	**20.21**	18.40
McKenneys Mixture	Centreville	**1.19**	1.25	**1.60**	2.10	**1.85**	----	**10.25**	10.10	**5.36**	5.00	**19.17**	20.48
Oriole	Centreville	**.40**	.25	**.60**	.50	**.90**	----	**10.70**	9.00	**5.74**	4.00	**15.69**	12.40
Oriole	Centreville	----	----	**.68**	.50	**1.05**	----	**9.95**	9.00	**5.00**	4.00	**14.84**	12.40
Special Mixture	Centreville	**.60**	.50	**1.01**	1.00	**1.15**	----	**12.25**	11.00	**4.20**	4.00	**17.37**	16.00
Special Mixture	Centreville	**.62**	.50	**1.01**	1.00	**1.90**	----	**11.00**	11.00	**5.06**	4.00	**17.18**	16.00
Standard	Centreville	**.65**	.60	**.99**	1.00	**1.30**	----	**9.40**	9.00	**4.94**	4.00	**15.63**	14.40
Standard	Centreville	**.58**	.60	**1.01**	1.00	**.85**	----	**9.85**	9.00	**5.16**	4.00	**16.18**	14.40
Twelve-Five	Centreville	----	----	----	----	**.70**	----	**12.50**	12.00	**5.68**	5.00	**14.65**	13.60
W. H. Valliant & Bro., Bellevue, Md.													
1-8-4 Guano	Bellevue	**1.31**	----	**2.01**	1.00	**1.55**	----	**8.00**	8.00	**6.42**	4.00	**19.81**	13.60
Lime and Potash	Bellevue	----	----	----	----	----	----	----	----	**6.32**	5.00	----	----
0-12-5 Phosphate	Bellevue	----	----	----	----	**.55**	----	**12.15**	12.00	**7.42**	5.00	**15.74**	13.60
Virginia-Carolina Chemical Corp., Baltimore, Md.													
American Acid Phosphate H. G.	Baltimore	----	----	----	----	**.75**	----	**17.15**	16.00	----	----	**13.83**	12.80
American Champion Grain Grower	Baltimore	**.67**	.39	**1.06**	1.00	**1.95**	----	**9.45**	9.00	**4.32**	4.00	**15.55**	14.40
American Champion Grain Grower	Baltimore	**.70**	.39	**1 11**	1.00	**1.90**	----	**9.40**	9.00	**4.36**	4.00	**15.74**	14.40
American Double Special Brand	Baltimore	**3.73**	2.00	**4.16**	4.00	**1.80**	----	**16.00**	16.00	**6.28**	6.00	**34.73**	33.60
American H. G. Potash Mixture	Baltimore	----	----	----	----	**1.30**	----	**12.70**	12.00	**5.20**	5.00	**14.52**	13.60

American Panacea Guano	Pylesville	**1.69**	.78	**2.13**	2.00	**.90**	----	**12.30**	12.00	**4.00**	4.00	**21.70**	20.80
Bryant's Burbank Brand	Baltimore	**1.21**	.78	**2.01**	2.00	**4.00**	----	**9.00**	9.00	**3.00**	3.00	**18.24**	17.60
V-C. Acid Phosphate	Baltimore	----	----	----	----	**.90**	----	**17.40**	16.00	----	----	**14.06**	12.80
V-C. Fish, Bone and Potash	Baltimore	**1.34**	.78	**2.01**	2.00	**3.60**	----	**9.10**	9.00	**3.08**	3.00	**18.32**	17.60
V-C. H. G. Potash Mixture	Baltimore	----	----	----	----	**1.30**	----	**13.20**	12.00	**4.80**	5.00	**14.60**	13.60
V-C. H. G. Potash Mixture	Baltimore	----	----	----	----	**1.20**	----	**12.30**	12.00	**5.36**	5.00	**14.31**	13.60
V-C. Muriate of Potash	Baltimore	----	----	----	----	----	----	----	----	**50.50**	48.00	----	----
V-C. Owl Brand Fertilizer	Baltimore	**1.52**	.78	**2.03**	2.00	**2.00**	----	**12.00**	12.00	**4.24**	4.00	**21.41**	20.80
V-C. Owl Brand Fertilizer	Baltimore	**1.80**	.78	**2.18**	2.00	**1.70**	----	**13.00**	12.00	**4.70**	4.00	**23.14**	20.80
V-C. Star Brand	Baltimore	**.72**	.55	**1.18**	1.00	**1.85**	----	**9.95**	9.00	**4.32**	4.00	**16.42**	14.40
V-C. Universal Crop Manure	Baltimore	**1.55**	.78	**1.98**	2.00	**1.55**	----	**9.05**	8.00	**5.24**	5.00	**19.58**	18.40
V-C. Valley Pride	Baltimore	**1.85**	.78	**2.19**	2.00	**2.10**	----	**12.40**	12.00	**2.04**	2.00	**20.63**	19.20
V-C. Valley Pride	Baltimore	**1.71**	.78	**2.05**	2.00	**1.65**	----	**12.85**	12.00	**2.32**	2.00	**20.59**	19.20
Westminster Fertilizer Co., Westminster, Md.													
Acid Phosphate	Westminster	----	----	----	----	**.90**	----	**17.90**	16.00	----	----	**14.46**	12.80
Leader	Westminster	**.61**	.49	**.99**	1.00	**.90**	----	**9.00**	9.00	**5.00**	4.00	**15.30**	14.40
Super-A	Westminster	**.60**	.49	**1.11**	1.00	**1.45**	----	**10.05**	10.00	**2.84**	2.00	**14.97**	13.60
2-8-5	Westminster	**1.23**	1.00	**1.74**	2.00	**.55**	----	**8.05**	8.00	**5.96**	5.00	**18.25**	18.40
Harry W. Whistler, Bel Air, Md.													
Crop Grower	Bel Air	**1.26**	1.00	**1.98**	2.00	**1.00**	----	**9.40**	8.00	**7.00**	7.00	**21.19**	20.00
Dissolved Bone	Bel Air	**1.55**	1.00	**1.98**	2.00	**.90**	----	**12.20**	10.00	----	----	**17.82**	16.00
Fish, Bone and Potash	Bel Air	**.54**	.50	**1.19**	1.00	**1.10**	----	**9.40**	8.00	**6.08**	5.00	**17.31**	14.40
White Rose Plant Food Co., York, Pa.													
White Rose Plant Food	Baltimore	**1.54**	----	**5.17**	5.00	**.25**	----	**10.25**	8.00	**4.14**	3.00	**32.43**	28.80
Worcester Fert. Co., Snow Hill, Md.													
Acid Phosphate 16%	Snow Hill	----	----	----	----	**.55**	----	**17.25**	16.00	----	----	**13.88**	12.80
Acid Phosphate 16%	Snow Hill	----	----	----	----	**1.05**	----	**16.65**	16.00	----	----	**13.48**	12.80
Correct Plant Food 1-9-4	Snow Hill	**.51**	.33	**1.14**	1.00	**.80**	----	**9.00**	9.00	**5.42**	4.00	**16.22**	14.40
Correct Plant Food 1-9-4	Snow Hill	**.72**	.33	**1.40**	1.00	**.85**	----	**9.15**	9.00	**4.80**	4.00	**16.89**	14.40
Correct Plant Food 2-8-5	Snow Hill	**1.28**	.66	**2.15**	2.00	**.85**	----	**8.65**	8.00	**5.36**	5.00	**19.94**	18.40
Correct Plant Food 2-8-5	Snow Hill	**1.45**	.66	**2.17**	2.00	**.50**	----	**9.00**	8.00	**6.14**	5.00	**20.87**	18.40
Correct Plant Food Mixture 2-12-4	Snow Hill	**1.27**	.66	**2.17**	2.00	**.60**	----	**12.20**	12.00	**4.08**	4.00	**21.79**	20.80

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Worcester Fert. Co., Snow Hill, Md. —Continued													
Correct Plant Food Mixture 0-12-5	Snow Hill	----	----	----	----	**.75**	----	**12.45**	12.00	**5.32**	5.00	**$14.33**	$13.60
Correct Plant Food Mixture 0-12-5	Snow Hill	----	----	----	----	**.55**	----	**12.05**	12.00	**5.00**	5.00	**13.72**	13.60
Correct Plant Food Mixture 3-8-5	Snow Hill	**2.05**	1.00	**2.99**	3.00	**.60**	----	**9.00**	8.00	**5.80**	5.00	**23.89**	22.40
R. B. Wyand, Chewsville, Md.													
Dissolved Phosphate	Chewsville.	----	----	----	----	**.25**	----	**18.55**	16.00	----	----	**14.88**	12.80
Dissolved Phosphate	Chewsville.	----	----	----	----	**1.00**	----	**18.10**	16.00	----	----	**14.63**	12.80
Golden Harvest Fish and Bone Mix.	Chewsville.	**1.38**	----	**2.10**	2.00	**1.75**	----	**10.25**	10.00	**5.36**	5.00	**21.15**	20.00
Golden Harvest Fish and Bone Mix.	Chewsville.	**1.38**	----	**2.10**	2.00	**1.65**	----	**10.35**	10.00	**4.80**	5.00	**20.77**	20.00
Grain Mixture	Chewsville.	**.65**	----	**1.06**	1.00	**.80**	----	**11.50**	9.00	**4.68**	4.00	**17.30**	14.40
Grain Mixture	Chewsville.	**.58**	----	**1.06**	1.00	**.75**	----	**9.35**	9.00	**5.08**	4.00	**15.89**	14.40
Phosphate and Potash Mixture.	Chewsville.	----	----	----	----	**.60**	----	**13.30**	12.00	**5.00**	5.00	**14.73**	13.60
Phosphate and Potash Mixture.	Chewsville.	----	----	----	----	**.75**	----	**13.15**	12.00	**5.12**	5.00	**14.73**	13.60